



HUTCHINSON®

We make it ***possible***

LOW FRICTION SEALING PADS FOR MULTI-WAY VALVES



SEALING PADS FOR MULTI-WAY VALVES BOOST EFFICIENCY, REDUCE POWER CONSUMPTION



Energy efficiency is key: Hutchinson offers advanced sealing pads for multi-way valves that help reduce the power required by the valve motor, while ensuring optimal sealing performance. These components are designed to strike the perfect balance between mechanical efficiency and fluid tightness, with customized designs tailored to fluid flow and assembly constraints.

Our sealing pads for multi-way rotary valves are designed to reduce the torque required by the valve motor, contributing to lower energy consumption, while ensuring high sealing integrity.

These solutions enable smooth and reliable movement of internal components, which is essential for redirecting fluid flows in thermal management systems.

Engineered to perform under varying temperatures, pressures, and repeated cycles, they offer consistent performance and durability. Their compact and customized design supports both mechanical efficiency and optimal fluid tightness, making them a key element in modern, energy-efficient systems.



- ▶ Low torque for less energy consumption
- ▶ High sealing performance on a wide temperature and pressure range
- ▶ Low wear over complete lifetime

HUTCHINSON EXPERTISE DRIVING PERFORMANCE

With strong expertise in materials and design engineering, including CAD modeling and numerical simulation, Hutchinson develops sealing solutions that are precisely tailored to their operating environments and meet the increasingly demanding market requirements for compliance, durability, and performance.

ADVANCED MATERIALS AND ADHESION EXPERTISE

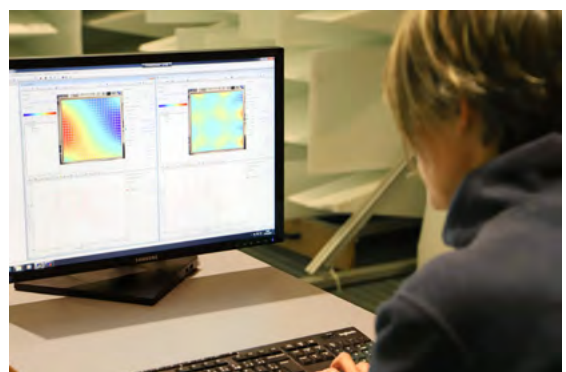
- Compounds formulations
- Definition and validation of the best combination of low friction film and elastomer

DESIGN CAPABILITIES

- CAD design
- Numerical simulation | F.E.A. 2D-3D

IN-HOUSE VALIDATION AND TESTING

- Rapid prototyping
- Aging and endurance testing



LUBRITAPE-E, SUSTAINABLE PFAS-FREE COATING FOR LOW FRICTION SEALING PADS

LUBRITAPE-E is a permanent PFAS-free surface treatment applied as a thin, uniform film on rubber seal. This innovative coating creates a non-stick, self-lubricating layer that significantly reduces friction and enhances abrasion resistance.

Designed as a direct alternative to PTFE-based solutions, LUBRITAPE-E delivers the same performance level, while aligning with environmental standards.

While ideal for low friction sealing pads for thermal management modules on mobility and off-road markets, Lubritape-E also holds potential for wider industrial applications where reliability and wear resistance are critical.



BENEFITS

- ▶ PFAS-Free
- ▶ High sliding properties
- ▶ Low-friction coefficient
- ▶ Water-repellent surface
- ▶ High impact strength resistance

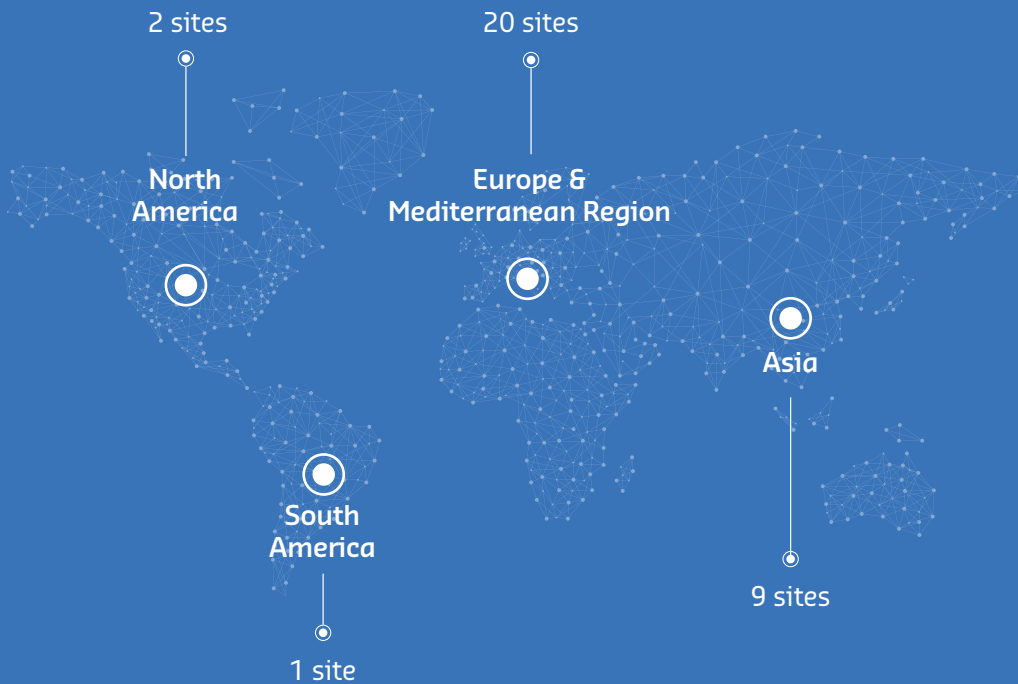
MAIN PROPERTIES

Color	Tranparent Clear
Surface Aspect	Forms a smooth and non-shiny film on the surface
Thickness	0.25 mm <i>(other thicknesses available on request)</i>
Coefficient of Friction	Dynamic CoF Dry: 0.1 Wet: 0.05
Temperature Resistance	-50°C to 115°C
Material Compatibility	EPDM <i>(other families on demand)</i>
Fluid Compatibility	Water, Glycol <i>(other fluids on demand)</i>

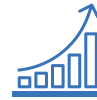
Each application is a specific case (type of elastomer, working conditions, assembly method, performances to be achieved, etc...). A trial in working condition is necessary to validate completely the coating. When seals are assembled automatically or semi-automatically, validation of the distribution system with a representative quantity of parts is necessary (rate validation, validation of cleaning cycles ...)



HUTCHINSON PRECISION SEALING SYSTEMS AROUND THE WORLD



ABOUT HUTCHINSON



€4.8 bn
turnover



25
countries



5% invested
each year in
Research &
Innovation



100 sites
around
the world



> 40,000
employees

ABOUT HUTCHINSON PRECISION SEALING SYSTEMS

French leading manufacturer of sealing technologies, with over 170 years of history, Hutchinson Precision Sealing Systems specializes in providing static and dynamic seals, sensing solutions, foams & cellular rubber, insulation & barriers.

We design customized solutions that ensure optimal performance, even for the most demanding customer requirements. Our deep understanding of material science and customer challenges allows us to work hand-in-hand with the major players of the automotive, aerospace, defense, energy, and railway and industry. This collaborative approach ensures that we deliver solutions that fully meet customers expectations. Quality and reliability are the cornerstones of our operations. By fully integrating the development and manufacturing processes, we maintain the highest standards across all our products.

With strong worldwide footprint and a dedicated team of over 7,000 employees, we are always close to our customers, ready to provide the support and expertise they need.



Visit our website: pss.hutchinson.com
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